| MMM | MMM | TTTTTTTTTTTTTT | ННН | HHH | RRRRRRRR | RRRR | TTTTTTTTTTTTTT | LLL |
|--------|---------|-------------------|-------------------|-----|----------|------|---------------------------------------|-----------------|
| MMM | MMM | †††††††††††††††† | ННН | ННН | RRRRRRRR | | TTTTTTTTTTTTT | |
| MMM | MMM | ŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤ | ННН | ннн | RRRRRRR | | i i i i i i i i i i i i i i i i i i i | |
| MMMMMM | MMMMMM | 111 | нин | ннн | RRR | RRR | 777 | |
| MMMMMM | MMMMMM | +++ | | | | | | FFF |
| | | 111 | HHH | ннн | RRR | RRR | ŢŢŢ | řřř |
| MMMMMM | | !!! | ННН | HHH | RRR | RRR | ŢŢŢ | LLL |
| | MMM MMM | ŢŢŢ | HHH | HHH | RRR | RRR | TTT | LLL |
| | MMM MMM | 111 | HHH | HHH | RRR | RRR | TTT | LLL |
| MMM | MMM MMM | TTT | HHH | HHH | RRR | RRR | TTT | LLL |
| MMM | MMM | TTT | НИНИНИНИНИ | | RRRRRRRR | | ŤŤŤ | ĬĬĬ |
| MMM | MMM | TTT | НИНИНИНИНИ | | RRRRRRRR | | ŤŤŤ | <i>ו</i> ווֹ דּ |
| MMM | MMM | ŤŤŤ | НИНИНИНИНИ | | RRRRRRRR | | ŤŤŤ | iii |
| MMM | MMM | ŤŤŤ | ННН | ннн | RRR RR | | ŤŤŤ | ili |
| MMM | MMM | ŤŤŤ | нин | ннн | RRR RR | | ήii | |
| MMM | MMM | ή†† | HHH | HHH | RRR RR | | 111 | LLL |
| MMM | | T T | | | | | | LLL |
| | MMM | | ннн | ННН | RRR | RRR | ŢŢŢ | rrr |
| MMM | MMM | III | HHH | ННН | RRR | RRR | ŢŢŢ | LLL |
| MMM | MMM | TTT | ННН | HHH | RRR | RRR | TTT | LLL |
| MMM | MMM | TTT | ННН | HHH | RRR | RRR | TTT | |
| MMM | MMM | TTT | HHH | HHH | RRR | RRR | TTT | LLLLLLLLLLLLLL |
| MMM | MMM | 111 | ННН | HHH | RRR | RRR | ŤŤŤ | |

MT MT MT MT MT

MT MT MT MT MT MT

| MM MM MMM MMM MMMM MMM MM MM MM MM MM MM | | HH HHHHHHHHH | \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ | GGGGGGGG GGGGGGGG GG GG GG GG GG GG GG | NN NN NN NN NN NN NNNN NN NNNN NN NN NN NN NN NN |
|------------------------------------------|--|------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|
| | | \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ | | | |

M

B 10 MTH\$SIGN Table of contents SIGN function 16-SEP-1984 01:48:50 VAX/VMS Macro V04-00 49 58 89 HISTORY DECLARATIONS Mih\$SIGN ; Detailed Current Edit History

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Page (1) MI

.TITLE MTH\$SIGN .IDENT /1-002/

SIGN function ; File: MTHSIGN.MAR

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; FACILITY: MATH LIBRARY

; ABSTRACT:

This module contains routine MTH\$SIGN

; VERSION: 0

: HISTORY:

AUTHOR:

Jonathan M. Taylor, 14-JUL-77: Version 0

MODIFIED BY:

*

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38 39

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46 47

SIGN function

DECLARATIONS

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```
0000
             58
59
                          .SBTTL DECLARATIONS
             60
    0000
                : INCLUDE FILES:
             6666666789012345
    0000
    0000
                          oerr.mar
    0000
    0000
    ŎŎŎŎ
                : EXTERNAL SYMBOLS:
    0000
    ŎŎŎŎ
                          NONE
    0000
    0000
    ŎŎŎŎ
                MACROS:
    0000
    0000
                          NONE
    0000
    0000
    0000
                 : PSECT DECLARATIONS:
    0000
                          .PSECT _MTH$CODE
0000000
                                                   PIC, SHR, LONG, EXE, NOWRT
    0000
             78
78
78
81
81
82
83
84
85
86
87
    0000
                EQUATED SYMBOLS:
    0000
    0000
                          NONE
    0000
    0000
    ŎŎŎŎ
    0000
0000
0000
                   OWN STORAGE: NONE
```

0008 ; arg1 is non-negative, check sign of arg2 8000 08 BC 03 53 18 131 0008 **a8(AP)** TSTF 000B EXIT BGEQ ; both args positive, nothing to do 133 NEGATE: DOOD 134 52 50 50 000D MNEGF RO, RO ; negate arg1 135 EXIT: 0010 136 137 04 0010 RET 0011 138; arg1 is negative, check sign of arg2 0011 139 0011 140 NEGARG: 0011 08 BC F7 0011 141 **TSTF** 28(AP) 142 18 0014 BGEQ NEGATE ; arg2 positive negate arg1 04 0016 RET 144

0017 0017 MTH\$SIGN 1-002

SIGN function MTH\$SIGN

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16-SEP-1984 01:48:50 VAX/VMS Macro V04-00 6-SEP-1984 11:26:54 [MTHRTL.SRC]MTHSIGN.MAR;1

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0017 146

.END

| MTH\$SIGN Symbol table | | SIGN | functio | n | | | н 10 | 16 | -SEP-1 | 984 01 984 11 | :48:50 :26:50 | O VAX. | /VMS M HRTL.SI | acro V RC]MTH | /04-00 HSIGN.M | AR;1 | Page |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------|--------------------------------------|----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|----------------------------------------------------|-----|------------|------------------|------------------|--------------|-------------------|------------------|-------------------|------|------|
| EXIT MTH\$SIGN NEGARG NEGATE | 00000010 R 00000000 RG 00000011 R 0000000D R | 01 01 01 01 | | | | | | | | | | | | | | | |
| | | | | + ! P + | sect | synop | sis! | | | | | | | | | | |
| PSECT name . ABS _MTH\$CODE | | | | PSEC: 00 (01 (| 0.) | | | CON | ABS REL | L C L | NOSHR SHR | NOEXE EXE | | | NOVE C NOVE C | | |
| | | | | ! Perf | orman | ce ind | dicators | -+ | | | | | | | | | |
| Phase | Pag | e faults | CPU | Time | E | lapsed | d Time | | | | | | | | | | |
| Initialization Command process Pass 1 Symbol table son Pass 2 Symbol table out Psect synopsis of Cross-reference | rt tput output | 30 112 67 0 42 20 | 00:0 00:0 00:0 00:0 00:0 | 0:00.08 0:00.54 0:00.44 0:00.00 0:00.01 0:00.02 | 000000000000000000000000000000000000000 | 0:00:(0:00:(0:00:(0:00:(0:00:(0:00:(| 04.19 02.12 00.00 01.47 00.07 00.02 | | | | | | | | | | |

The working set limit was 750 pages.
1414 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 4 non-local and 0 local symbols.
146 source lines were read in Pass 1, producing 10 object records in Pass 2.
O pages of virtual memory were used to define 0 macros.

00:00:01.44

Macro library statistics !

00:00:08.72

Macro library name

Assembler run totals

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

0

O GETS were required to define O macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:MTHSIGN/OBJ=OBJ\$:MTHSIGN MSRC\$:MTHSIGN/UPDATE=(ENH\$:MTHSIGN)

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